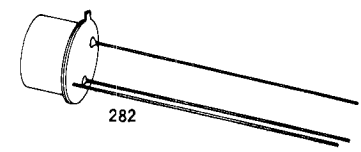
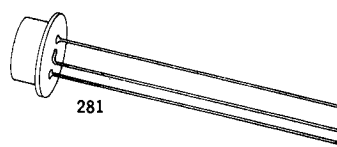


# GERMANIUM SIGNAL TRANSISTORS



GE Type	$h_{FE}$ @ 1V, 20mA	$f_{Tb}$ Typical (MHz)	$BV_{CER}$ Min. @ 600 $\mu$ A 10K $\Omega$ (V)	$I_{CBO}$ Max. @ $V_{CB}$		$P_T$ Max. (mW)	Comments	Package Outline No.	Specification Sheet No.
				( $\mu$ A)	(V)				
2N43A <sup>1</sup>	34-65	1.3	30	16	45	240	See 2N525.	281	20.10
2N44A <sup>1</sup>	18-43	1.0	30	16	45	240	See 2N524.	281	20.10
2N188A	34-65	1.2	25	16	25	200	See 2N508, 2N1175 and 2N1413 series.	281	80.15
2N241A	50-125	1.3	25	16	25	200		281	80.18
2N319	25-42	2.0	20	16	25	225		282	80.24
2N320	34-65	2.5	20	16	25	225		282	80.24
2N321	53-121	3.0	20	16	25	225	Audio driver and audio output.	282	80.24
2N322	34-65	3.0	18	16	16	200		282	80.25
2N323	53-121	3.5	18	16	16	200		282	80.25
2N324	72-198	4.0	18	16	16	200		282	80.25
2N396	30-150 <sup>2</sup>	8.0	20	6	20	200	Industrial/Military-medium beta, medium speed switch.	282	25.24
2N396A <sup>1</sup>	30-150 <sup>2</sup>	8.0	20 <sup>4</sup>	6	20	200	Same as 2N396.	282	25.24
2N397	40-150 <sup>2</sup>	12.0	15	6	15	200	Industrial/Military-medium speed switch.	282	—
2N404	—	8.0	24 <sup>5</sup>	5	12	150	Medium speed switch—wide beta spread.	282	25.27
2N404A	—	8.0	35 <sup>5</sup>	5	12	150	Same as 2N404.	282	25.27
2N413	20-100 <sup>2</sup>	6.0	18 <sup>4</sup>	5	12	150	General purpose medium speed switch.	282	25.30
2N414	30-120 <sup>2</sup>	7.0	15 <sup>4</sup>	5	12	150	Same as 2N413.	282	25.31
2N461	32-199 <sup>3</sup>	4.0	35	15	45	200	General purpose—2N525 recommended.	282	20.25
2N508	100-200	4.5	18	7	16	200	High gain, low noise preamplifiers.	282	80.28
2N508A	100-200	4.5	25	7	25	200		282	80.28
2N524	25-42	2.5	30	10	30	225		282	20.30
2N525	34-65	3.0	30	10	30	225	Military/industrial—Audio amplifiers and medium speed switch. Specified $h_{FE}$ hold-up, high temperature $I_{CO}$ , and low temperature $h_{FE}$ . Guaranteed reliability index.	282	20.30
2N526 <sup>1</sup>	53-90	3.5	30	10	30	225		282	20.30
2N527	72-121	4.0	30	10	30	225		282	20.30
2N1175	70-140	4.0	25	12	30	200	General purpose industrial and consumers preamplifier.	282	20.35
2N1175A	70-140	4.0	25	12	30	200	General purpose industrial and consumer, high gain, low noise preamplifiers. Guaranteed noise figure.	282	20.35
2N1303 <sup>1</sup>	20 Min. <sup>2</sup>	7.0	25 <sup>5</sup>	6	25	150		282	25.65
2N1305 <sup>1</sup>	40-200 <sup>2</sup>	8.0	20 <sup>5</sup>	6	25	150	Medium speed switch.	282	25.65
2N1307 <sup>1</sup>	60-300 <sup>2</sup>	12.0	15 <sup>5</sup>	6	25	150		282	25.65
2N1413	25-42	3.2	25	12	30	200		282	20.70
2N1414	34-65	3.6	25	12	30	200	General purpose industrial and consumer audio amplifier and medium speed switch.	282	20.70
2N1415	53-90	4.0	25	12	30	200		282	20.70
2N1924	34-65	3.0	40	10	45	225	Military/industrial audio amplifier and medium speed switch. High voltage, specified $h_{FE}$ hold-up, low temperature $h_{FE}$ , and high temperature $I_{CO}$ . Guaranteed reliability index.	282	20.80
2N1925	53-90	3.5	40	10	45	225		282	20.80
2N1926	72-121	4.0	40	10	45	225		282	20.80

<sup>1</sup> Also available as military types.

<sup>2</sup>  $V_{CE} = 1V$ ,  $I_C = 10mA$ .

<sup>3</sup>  $V_{CB} = 5V$ ,  $I_E = 1mA$ ,  $f = 1 KHz$

<sup>4</sup>  $BV_{CEO}$ .

<sup>5</sup>  $V_{RT}$

<sup>6</sup>  $V_{RT} = 60V$